

CLAIMS:

1. Method for pre-treatment of used tyres (1) before a
pyrolysis process, **characterized** in that each tyre (1) is
5 cleaned in a cleaning station (2) with high pressure air jets
before it is fed to a first heating stage (4) of the
pyrolysis process.
2. Method according to claim 1, **characterized** in that said
10 cleaning of each tyre (1) is carried out in a closed chamber
(5), whereby air contaminated with dust and other dirt
particles from said tyre (1) is continuously conducted
through an air cleaning device (10) for removing said dust
and other dirt particles from the air, and received cleaned
15 air is fed to a high pressure blower (8) for producing said
high pressure air jets.
3. Method according to claim 2, **characterized** in that
cleaning of said air is carried out by means of a high
20 voltage electric field between a central charging electrode
(11) provided with radially directed tips having a first
polarity and a cylindrical collecting electrode (12) of
opposed electric polarity, surrounding said charge electrode
(11).
- 25 4. Method according to claim 1, **characterized** in that thus
cleaned tyres (1) are fed as whole tyres into said first
heating stage (4) of the pyrolysis process.
- 30 5. Method according to claim 1, **characterized** in that each
thus cleaned tyre (1) is compressed to a block (1b) of
reduced size before entering said first heating stage (4).

6. Equipment for pre-treatment of used tyres (1) before entering a first heating chamber (4) of a pyrolysis plant, **characterized** of a cleaning chamber (5) provided with a number of air nozzles (6,7) for cleaning each tyre (1) with
 5 high pressure air jets while rotated around an axis of its own.

7. Equipment according to claim 6, **characterized** in that said cleaning chamber (5) is provided with an air cleaning circuit
 10 (9) including an air cleaning device (10) and a high pressure blower (8) producing said high pressure air jets.

8. Equipment according to claim 7, **characterized** in that said air cleaning device (10) comprises a central charging
 15 electrode (11) provided with radially directed tips and a cylindrical collecting electrode (12) surrounding said charging electrode (11), through which collecting electrode (12) air contaminated with dust and other dirt particles from the tyres (1) is intended to be fed, said electrodes (11, 12)
 20 being connected to opposed poles of a high voltage current source (13).

9. Equipment according to claim 6, **characterized** in that a compression station (3) is provided between said cleaning
 25 chamber (5) and said first heating chamber (4), said compression station (3) being provided with hydraulically operated compressing means (19, 20) for compressing each tyre (1) to a block (1a, 1b) of reduced size.

30 10. Equipment according to claim 9, **characterized** in that the compression station (3) comprises a narrow path (21) for a rolling tyre (1), said path (21) ending at a vertical stop plate (18), whereby said compression means (19,20) comprise a

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